

**TRADEMARK ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>		NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>		ASSIGNS THE ENTIRE INTEREST AND THE GOODWILL	
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
Metallurgica Gesellschaft fur Huttenwerkstechnik mbH & Co. KG		12/19/2012	LIMITED PARTNERSHIP: GERMANY
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	Vesuvius Crucible Company		
<b>Street Address:</b>	250 Park West Drive		
<b>Internal Address:</b>	Legal Department		
<b>City:</b>	Pittsburgh		
<b>State/Country:</b>	PENNSYLVANIA		
<b>Postal Code:</b>	15275		
<b>Entity Type:</b>	CORPORATION: DELAWARE		
<b>PROPERTY NUMBERS Total: 3</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
Registration Number:	1624297	METALLURGICA	
Registration Number:	2692289	REPARTECT	
Registration Number:	1120314	SCORIALIT	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	412-490-17		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>			
<b>Phone:</b>	412-859-6937		
<b>Email:</b>	tony.iadicicco@us.vesuvius.com		
<b>Correspondent Name:</b>	Donald M. Satina		
<b>Address Line 1:</b>	250 Park West Drive		
<b>Address Line 2:</b>	Legal Department		
<b>Address Line 4:</b>	Pittsburgh, PENNSYLVANIA 15275		
<b>NAME OF SUBMITTER:</b>	Donald M. Satina		

CH \$90.00 1624297

**900245081**

**TRADEMARK**  
**REEL: 004948 FRAME: 0692**

Signature:	/Donald M. Satina/
Date:	01/24/2013
<b>Total Attachments: 10</b> source=METALLURGICA-ASSGN#page1.tif source=METALLURGICA-ASSGN#page2.tif source=METALLURGICA-ASSGN#page3.tif source=METALLURGICA-ASSGN#page4.tif source=METALLURGICA-ASSGN#page5.tif source=METALLURGICA-ASSGN#page6.tif source=METALLURGICA-ASSGN#page7.tif source=METALLURGICA-ASSGN#page8.tif source=METALLURGICA-ASSGN#page9.tif source=METALLURGICA-ASSGN#page10.tif	

## ASSIGNMENT OF TRADEMARKS

THIS Trademark Assignment Agreement (the "Assignment"), made and entered into as of the 19th day of December, 2012, is by and between Metallurgica Gesellschaft für Hüttenwerkstechnik mbH & Co. KG, a German Limited Partnership, having a principal place of business at Schieferbank 6-16 45472 Mülheim Germany (hereinafter "Assignor") and Vesuvius Crucible Company, a Delaware corporation, having a place of business at 1209 Orange Street, Wilmington, Delaware 19801 USA (hereinafter "Assignee").

### WITNESSETH

WHEREAS, Assignor operates a business for the manufacture, marketing and sale of certain products for use in the metallurgical industry (the "Business");

WHEREAS, Assignor presently owns certain trademarks, registered and unregistered, registrations and/ or applications for the trademarks, as well as certain trade names, know-how and product information relating to the certain products which have been sold under or associated with the Business;

WHEREAS, under an Asset Purchase and Sale Agreement (the "Agreement") dated the same day as this Assignment, Assignor has agreed to sell the Trademarks as defined hereinbelow, to Assignee and Assignee has agreed to purchase from Assignor the Trademarks and to assume the Assignor's rights and obligations in relation thereto; and

WHEREAS, it is a condition to the Closing of the Agreement that Assignor shall deliver a duly executed assignment of the Trademarks to the Assignee.

NOW, THEREFORE, in consideration of, among other things, the payment by Assignee of the Purchase Price (as defined in the Agreement) and in further consideration of the mutual covenants and agreements contained in the Agreement, the receipt and sufficiency of which are hereby acknowledged, Assignor and Assignee agree as follows:

1. Definition of Trademarks. The term Trademarks as used herein shall have the same meaning as that term is defined in the Agreement, namely that "Trademarks" shall refer to (i) international trademark registrations and applications for registrations thereof set forth in Schedule A attached hereto and expressly made a part hereof and, (ii) the goodwill of the business connected with the use of these trademarks and symbolized thereby.
2. Assignment of Trademarks. Effective as of the date first written above, Assignor sells, transfers, conveys, assigns and delivers to Assignee and Assignee accepts all right, title and interest of Assignor in and to the Trademarks.

  
  
**TRADEMARK**

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3. Relationship with the Agreement. This Assignment is intended to evidence the consummation of the transactions contemplated by the Agreement. This Assignment is made without representation or warranty except as provided in and by the Agreement. This Assignment is in all respects subject to the provisions of the Agreement and is not intended in any way to supersede, limit or qualify any provision of the Agreement.
4. Further Assurances. In the event that for any of the Trademarks, any additional assignment or other document is required to complete the transfer or assignment of the same, Assignor hereby undertakes to give to Assignee all assistance reasonably necessary to the end of finalizing endorsements contemplated by this Assignment in favor of Assignee even, where necessary, by appointing an attorney-in-fact duly empowered to carry out all the actions necessary for such purpose. Assignor shall bear its own expenses in relation to such additional undertakings but any out-of-pocket expenses shall be for the account of Assignee.
5. Successors. This Assignment shall inure to the benefit of and is binding upon the respective successors and assigns of Assignor and Assignee.
6. Governing Law. This Assignment shall be governed by, and construed in accordance with the laws of the State of Delaware, United States, without giving effect to the conflict of laws provisions thereof.

IN WITNESS WHEREOF, Assignor and Assignee caused this Assignment to be duly executed as of the date first written above.

Assignor :

METALLURGICA GESELLSCHAFT FÜR HÜTTENWERKSTECHNIK MBH &  
CO. KG

By: (Signatures)



Edmund Fuchs (CEO)



Winfried Hinrichs (CFO)

Assignee :

VESUVIUS CRUCIBLE COMPANY

By: (Signature)



Don Satina

Attachment: Schedule A – Registered Trademarks



TRADEMARK   
REEL: 004948 FRAME: 0695

**Schedule A****ALGERIA**

Mark	Application/Registration No.	Filing Date	Registration Date
METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	607357	27. Aug 93	27. Aug 93
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**ARGENTINA**

SCORIALIT	1962553	04. Dez 03	04. Dez 03
SPH	2853318	02. Sep 08	18. Jan 10

**ARMENIA**

METALLURGICA	985514	01. Aug 08	01. Aug 08
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**AUSTRALIA**

METAFIL	769919	12. Aug 98	12. Aug 98
METALLURGICA	517962	28. Aug 89	28. Aug 89
METALLURGICA	985514	01. Aug 08	01. Aug 08
SCORIALIT	323495	30. Okt 78	30. Okt 78
SPH	733069	23. Apr 97	23. Apr 97
THERMOTECT	938812	28. Sep 00	28. Sep 00

**AUSTRIA**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	607357	27. Aug 93	27. Aug 93
METALLURGICA	985514	01. Aug 08	01. Aug 08
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 08

**AZERBAIJAN**

METALLURGIA	985514	01. Aug 08	01. Aug 08
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**BELARUS**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	985514	01. Aug 08	01. Aug 08
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 08

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**BENELUX**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	607357	27. Aug 93	27. Aug 93
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**BOSNIA AND HERZEGOVINA**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	985514	01. Aug 08	01. Aug 08
THERMOTECT	525530	14. Jul 98	14. Jul 98

**BRAZIL**

METALLURGICA	815143001	21. Sep 89	24. Sep 91
SCORIALIT	6880983	08. Mai 78	25. Feb 79
SPH	819906280	02. Mai 97	07. Dez 99
THERMOTECT	780148649	23. Mai 78	20. Mrz 84

**BULGARIA**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	985514	01. Aug 08	01. Aug 08
METALLURGICA	1832922	31. Aug 00	20. Nov 01
THERMOTECT	525530	14. Jul 98	14. Jul 98

**CANADA**

METAFIL	88878200	28. Aug 98	29. Sep 00
METALLURGICA	64449100	31. Aug 89	24. Mai 91
REPARTECT	110856000	04. Jul 01	19. Jan 04
SCORIALIT	42432600	03. Mai 78	07. Mrz 80
SPH	84895800	25. Jun 97	18. Sep 98
THERMOTECT	108292200	16. Nov 00	02. Nov 09

**CHINA**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	1105064	28. Jun 96	21. Sep 97
METALLURGICA	985514	01. Aug 08	01. Aug 08
SCORIALIT	702373	22. Apr 93	21. Aug 94
SPH	682565	01. Okt 97	01. Okt 97

**CROATIA**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	985514	01. Aug 08	01. Aug 08
THERMOTECT	525530	14. Jul 98	14. Jul 98

**CYPRUS**

METALLURGICA	1832922	31. Aug 00	20. Nov 01
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**CZECH REPUBLIC**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	607357	27. Aug 93	27. Aug 93
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**DENMARK**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	VA 006444 1989	17. Sep 89	04. Jan 91
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SCORIALIT	VA004476 1978	24. Okt 78	21. Mrz 80
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**EGYPT**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	985514	01. Aug 08	01. Aug 08
THERMOTECT	525530	14. Jul 98	14. Jul 98

**ESTONIA**

METALLURGICA	985514	01. Aug 08	01. Aug 08
METALLURGICA	1832922	31. Aug 00	20. Nov 01

**EUROPEAN COMMUNITY**

METALLURGICA	1832922	31. Aug 00	20. Nov 01
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**FINLAND**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	198904180	21. Aug 89	20. Mrz 92
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SCORIALIT	197801682	29. Mrz 78	06. Apr 81
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**FRANCE**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	607357	27. Aug 93	27. Aug 93
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**GEORGIA**

METALLURGICA	985514	01. Aug 08	01. Aug 08
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**GERMANY**

EXOLUPU	M39692	09. Okt 74	11. Dez 75
METAFIL	39840987	21. Jul 98	25. Aug 98
METALLURGICA	M65620	17. Aug 89	27. Aug 93
METALLURGICA	1832922	31. Aug 00	20. Nov 01
REPARTECT	M39694	09. Okt 74	11. Dez 75
SCORIALIT	M27265	02. Feb 67	28. Dez 67
SCORIALIT	M43856	09. Nov 77	11. Apr 78
SPH	39714283,8	01. Apr 97	20. Aug 97
THERMOTECT	M39697	09. Okt 74	11. Dez 75
THERMOTECT	M43915	23. Nov 77	11. Apr 78

**GREECE**

METTALURGICA	1832922	31. Aug 00	20. Nov 01
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**HUNGARY**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	607357	27. Aug 93	27. Aug 93
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97

**INDIA**

EXOLUPU	725840	20. Sep 96	20. Sep 96
LYMEX	725837	20. Sep 96	20. Sep 96
METAFIL	814401	12. Aug 98	08. Dez 98
METALLURGICA	1738666	29. Sep 08	29. Sep 08
METALLURGICA	1738667	29. Sep 08	29. Sep 08
REPARTECT	1738662	29. Sep 08	29. Sep 08
SCORIALIT	1738664	29. Sep 08	29. Sep 08
SPH	1738665	29. Sep 08	29. Sep 08
THERMOTECT	1738663	29. Sep 08	29. Sep 08

**International Registrations**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	607357	27. Aug 93	27. Aug 93
METALLURGICA	985514	01. Aug 08	01. Aug 08
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**IRELAND**

METALLURGICA	1832922	31. Aug 00	20. Nov 01
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**ITALY**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	607357	27. Aug 93	27. Aug 93
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**JAPAN**

METALLURGICA	H01-098818	01. Sep 89	31. Mrz 93
SCORIALIT	H03-222435	08. Mai 78	25. Dez 81
THERMOTECT	525530	14. Jul 98	14. Jul 98

**KAZAKHSTAN**

METALLURGICA	985514	01. Aug 08	01. Aug 08
SCORIALIT	437592	11. Apr 78	11. Apr 78

**S.KOREA**

METALLURGICA	40-1998-0024878	24. Sep 98	16. Mrz 00
METALLURGICA	40-1998-0024877	24. Sep 98	16. Mrz 00
SCORIALIT	40-1998-0024879	24. Sep 98	21. Dez 99
SPH	400461223	08. Feb 10	08. Feb 10
THERMOTECT	40-200-0045853	30. Sep 00	25. Mrz 03

**KYRGYZ REPUBLIC**

METALLURGICA	985514	01. Aug 08	01. Aug 08
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**LATVIA**

METALLURGICA	985514	01. Aug 08	01. Aug 08
METALLURGICA	1832922	31. Aug 00	20. Nov 01

**LITHUANIA**

METALLURGICA	985514	01. Aug 08	01. Aug 08
METALLURGICA	1832922	31. Aug 00	20. Nov 01

**MACEDONIA**

METALLURGICA	985514	01. Aug 08	01. Aug 08
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**MALTA**

METALLURGICA	1832922	31. Aug 00	20. Nov 01
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<b>MEXICO</b>			
METAFIL	347632	28. Sep 98	28. Okt 98
METALLURGICA	374293	17. Okt 89	17. Okt 89
REPARTECT	525108	19. Dez 01	30. Jul 02
SCORIALIT	214540	21. Apr 78	21. Apr 78
SPH	293577	28. Apr 97	28. Mai 97

<b>MOLDOVA</b>			
METALLURGICA	985514	01. Aug 08	01. Aug 08

<b>NORWAY</b>			
METAFIL	708089	17. Sep 98	17. Sep 98
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 08

<b>POLAND</b>			
METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

<b>PORTUGAL</b>			
METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	1832922	31. Aug 00	20. Nov 01
THERMOTECT	525530	14. Jul 98	14. Jul 98

<b>ROMANIA</b>			
METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	607357	27. Aug 93	27. Aug 93
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

<b>RUSSIAN FEDERATION</b>			
METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	607357	27. Aug 93	27. Aug 93
METALLURGICA	985514	01. Aug 08	01. Aug 08
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97

<b>SERBIA</b>			
METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	985514	01. Aug 08	01. Aug 08
THERMOTECT	525530	14. Jul 98	14. Jul 98

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**SLOVAKIA**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	607357	27. Aug 93	27. Aug 93
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**SLOVENIA**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**S.AFRICA**

METAFIL	1998/14259	12. Sep 98	12. Sep 98
METALLURGICA	89/7628	22. Aug 89	22. Aug 89
SCORIALIT	78/1475	30. Mrz 08	30. Mrz 08
SPH	97/6215	24. Apr 97	24. Apr 97
THERMOTECT	2000/19361	28. Sep 10	28. Sep 10

**SPAIN**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97

**SWEDEN**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	1989/07974	28. Aug 89	01. Nov 91
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SCORIALIT	1978/01762	04. Apr 78	20. Apr 79
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**SWITZERLAND**

METAFIL	708089	17. Sep 98	17. Sep 98
SPH	682565	01. Okt 77	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**TAIWAN**

METALLURGICA	893777	18. Sep 98	16. Jun 00
METALLURGICA	865127	18. Sep 98	01. Sep 99
METALLURGICA	897914	18. Sep 98	01. Aug 00
METALLURGICA	865162	18. Sep 98	01. Sep 99
SCORIALIT	893778	18. Sep 98	16. Jun 00
SPH	893779	18. Sep 98	16. Jun 00
THERMOTECT	974975	15. Dez 11	15. Dez 11

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**TAJIKISTAN**

METALLURGICA	985514	01. Aug 08	01. Aug 08
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**TURKEY**

METAFIL	201582	19. Aug 98	19. Aug 98
METALLURGICA	113186	25. Aug 89	25. Aug 89
METALLURGICA	985514	01. Aug 08	01. Aug 08
SCORIALIT	103888	28. Apr 98	28. Apr 98
SPH	187156	30. Mai 97	30. Mai 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**UKRAINE**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	985514	01. Aug 08	01. Aug 08
SCORIALIT	437592	11. Apr 78	11. Apr 78
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**UNITED KINGDOM**

METAFIL	708089	17. Sep 98	17. Sep 98
METALLURGICA	1395653	22. Aug 89	31. Jan 92
METALLURGICA	1832922	31. Aug 00	20. Nov 01
SCORIALIT	B1095191	06. Mai 78	09. Nov 78
SPH	682565	01. Okt 97	01. Okt 97
THERMOTECT	525530	14. Jul 98	14. Jul 98

**USA**

METALLURGICA	1624297	08. Sep 89	27. Nov 90
REPARTECT	2692289	22. Jun 01	04. Mrz 03
SCORIALIT	1120314	05. Mai 78	19. Jun 79

**VENEZUELA**

METALLURGICA	18369,97		
SCORIALIT	95767	25. Sep 05	25. Sep 05
SPH	P206665	31. Jul 98	31. Jul 98

**VIETNAM**

METALLURGICA	985514	01. Aug 08	01. Aug 08
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